

Claims

What is claimed is:

1-9. (Cancelled)

10. (Previously Added) A method for providing a transaction layer for a module having at least one node connected to a serial bus that configures a link device for each of said at least one nodes comprising:

detecting a link driver;

receiving capabilities of said link driver;

generating a link driver configuration for said link driver from said capabilities of said driver; and

loading said link driver configuration into said link driver.

11. (Previously Added) The method of claim 10 further comprising:
querying said link driver for said capabilities.

12. (Previously Added) The method of claim 11 further comprising:
receiving said capabilities of said link driver from said link driver.

13. (Previously Added) The method of claim 10 further comprising:
storing said capabilities of said link driver.

14. (Previously Amended) The method of claim 13 wherein storing said capabilities comprises:

generating a node in a linked list for said link driver; and

storing said capabilities of said link driver in a data field of said node.

15. (Previously Added) The method of claim 10 further comprising:
receiving configuration information for said link driver.

16. (Previously Amended) The method of claim 15 wherein generating said link driver configuration comprises:

generating said link driver configuration from said capabilities and said configuration information.

17. (Previously Added) The method of claim 15 further comprising:
storing said configuration data.

18. (Previously Added) The method of claim 17 further comprising:
generating a node in a linked list for said link driver; and
storing said configuration information of said link driver in a data field of said node.

19. (Previously Added) The method of claim 10 further comprising:
receiving an input of user defined configuration data for said link driver.

20. (Previously Amended) The method of claim 19 wherein generating said link driver configuration comprises:

generating said link driver configuration from said capabilities and said user defined configuration data.

21. (Previously Added) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to provide a transaction layer for a module having at least one node connected to a serial bus that configures a link device for each of said at least one nodes that performs a method comprising:

detecting a link driver;

receiving capabilities of said link driver;

generating a link driver configuration for said link driver from said capabilities of said driver; and

loading said link driver configuration into said link driver.

22. (Previously Added) The program storage device of claim 21 wherein said method further comprises:

querying said link driver for said capabilities.

23. (Previously Added) The program storage device of claim 22 wherein said method further comprises:

receiving said capabilities of said link driver from said link driver.

24. (Previously Added) The program storage device of claim 21 wherein said method further comprises:

storing said capabilities of said link driver.

25. (Previously Added) The program storage device of claim 24 wherein said step of storing said capabilities comprises:

generating a node in a linked list for said link driver; and

storing said capabilities of said link driver in a data field of said node.

26. (Previously Added) The program storage device of claim 21 wherein said method further comprises:

receiving configuration information for said link driver.

27. (Previously Added) The program storage device of claim 26 wherein generating said link driver configuration comprises:

generating said link driver configuration from said capabilities and said configuration information.

28. (Previously Added) The program storage device of claim 27 wherein said method further comprises:

storing said configuration data.

29. (Previously Added) The program storage device of claim 28 wherein said method further comprises:

generating a node in a linked list for said link driver; and
storing said configuration information of said link driver in a data field of said
node.

30. (Previously Added) The program storage device of claim 21 wherein said method
further comprises:

receiving an input of user defined configuration data for said link driver.

31. (Previously Added) The program storage device of claim 30 wherein generating
said link driver configuration comprises:

generating said link driver configuration from said capabilities and said user
defined configuration data.
